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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,990	06/26/2003	Andrew P. Moseley	TCC123	5447
7590	02/26/2004		EXAMINER	
Donald J. Perreault Grossman, Tucker, Perreault & Pfleger, PLLC 55 South Commercial Street Manchester, NH 03101			TA, THO DAC	
			ART UNIT	PAPER NUMBER
			2833	

DATE MAILED: 02/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	
	10/606,990	MOSELEY, ANDREW P.	
	Examiner	Art Unit	
	Tho D. Ta	2833	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 9-14 is/are allowed.
- 6) ☒ Claim(s) 1-8 and 15-22 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-7, 15, 17-19, 21, 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Moyer et al. (5,489,222).

In regard to claim 1, Moyer et al. discloses a center conductor assembly comprising: an insulator 40 including portions defining an opening 54 therethrough; an inner conductor 88 comprising a first end (see attached drawing) configured to be electrically coupled to a center conductor 90 of a transmission line 12, at least a portion of the inner conductor 88 being disposed in the opening 54 (see fig. 3); and a center contact 82 having a first end 84 configured to mate with a mating center contact, and a second end (see attached drawing) for electrically connecting with a second end (see attached drawing) of the inner conductor, and at least one spur 94 adjacent the second end of the center contact 82, the at least one spur 94 engaging the insulator 40 thereby resisting rotational movement of the center contact 82 relative to the insulator 40 (see figures 4, 5, 6, 12, 13 and column 4, lines 1-11).

In regard to claim 2, Moyer et al. discloses that the insulator 40 comprises anti-rotational feature 62, 64 around at least a portion of a circumference of the insulator 40.

In regard to claim 3, Moyer et al. discloses that the at least one spur 94 extends axially from the second end of the contact 82.

In regard to claim 4, Moyer et al. discloses that the at least one spur 94 comprises a generally triangular projection extending from the second end of the center contact 82.

In regard to claim 5, Moyer et al. discloses a plurality of spurs 94 adjacent the second end of the center contact 82.

In regard to claim 6, Moyer et al. discloses that the first end of the inner conductor 88 comprises a receptacle dimensioned to receive a center conductor 90 of the transmission line 12.

In regard to claim 7, Moyer et al. discloses that the first end of the center contact 82 comprises a receptacle.

In regard to claim 15, Moyer et al. discloses a method of making an electrical connector 10 comprising: providing an insulator 40 having an opening 54 therein; providing an inner conductor 88 having a first end configured to mate with a center

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conductor 90 of a transmission line 12; providing a center contact 82 having a first end configured to mate with a mating center contact of a mating connector, a second end configured electrically contact a second end of the inner conductor 88, and at least one spur 94 extending from the center contact 82 adjacent the second end; inserting at least a portion of a second end of the inner conductor 88 in the opening 54; and electrically connecting the second end of the center contact 82 with the second end of the inner conductor 88 with the at least one spur 94 engaging the insulator 40 for thereby resisting rotational movement of the center contact 82 relative to the insulator 40 (see attached drawing).

In regard to claim 17, Moyer et al. discloses that the center contact 82 comprises a plurality of the spurs 94 extending from the center contact 82 adjacent the second end (see attached drawing).

In regard to claim 18, Moyer et al. discloses that the first end of the center contact 82 comprises a receptacle configured to mate with a center contact of a mating connector.

In regard to claim 19, Moyer et al. discloses that the first end of the inner conductor 88 comprises a receptacle configured to receive at least a portion of the center conductor 90 of the transmission line 12.

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In regard to claim 21, Moyer et al. discloses the step of inserting the insulator 40 in a connector body 14 configured to mate with a mating connector.

In regard to claim 22, Moyer et al. discloses that the insulator 40 comprises an anti-rotational surface (adjacent 72 in fig. 4, see column 2, lines 60-67) about at least a portion of a circumference thereof to resist rotational movement relative to the connector body 14.

3. Claims 1, 8, 15, 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Wilson (5,453,025).

In regard to claim 1, Wilson discloses a center conductor assembly comprising: an insulator 17 including portions defining an opening 43 therethrough; an inner conductor comprising a first end (see attached drawing) configured to be electrically coupled to a center conductor of a transmission line, at least a portion of the inner conductor being disposed in the opening 43; and a center contact (see attached drawing) having a first end (see attached drawing) configured to mate with a mating center contact, and a second end (see attached drawing) for electrically connecting with a second end (see attached drawing) of the inner conductor, and at least one spur 18 adjacent the second end of the center contact, the at least one spur 18 engaging the insulator 17 thereby resisting rotational movement of the center contact relative to the insulator 17 (column 5, lines 45-51).

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In regard to claim 8, Wilson discloses that the second end of the center contact comprises an opening dimensioned to receive at least a portion of the second end of the inner conductor.

In regard to claim 15, Wilson discloses a method of making an electrical connector comprising: providing an insulator 17 having an opening 43 therein; providing an inner conductor having a first end configured to mate with a center conductor of a transmission line; providing a center contact having a first end configured to mate with a mating center contact of a mating connector, a second end configured electrically contact a second end of the inner conductor, and at least one spur 18 extending from the center contact adjacent the second end; inserting at least a portion of a second end of the inner conductor in the opening 43; and electrically connecting the second end of the center contact with the second end of the inner conductor with the at least one spur 18 engaging the insulator 17 for thereby resisting rotational movement of the center contact relative to the insulator 17 (column 5, lines 45-51).

In regard to claim 16, Wilson discloses that electrically connecting the second end of the center contact with the second end of the inner conductor comprises inserting a post portion (see attached drawing) of the second end of the inner conductor into an opening in the second end of the center contact.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moyer et al.

Moyer et al. fails to teach the soldering process. Official Notice is taken that both the concept and the advantages of providing solder are well known and expected in the art.

Allowable Subject Matter

6. Claims 9-14 are allowed.
7. The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to provide, teach or a body including a cable connection end having a cable opening therein for receiving at least a portion of the cable; and in combination with other limitations in claim 9.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho D. Ta whose telephone number is (571) 272-2014. The examiner can normally be reached on M-F (8:00-5:30).

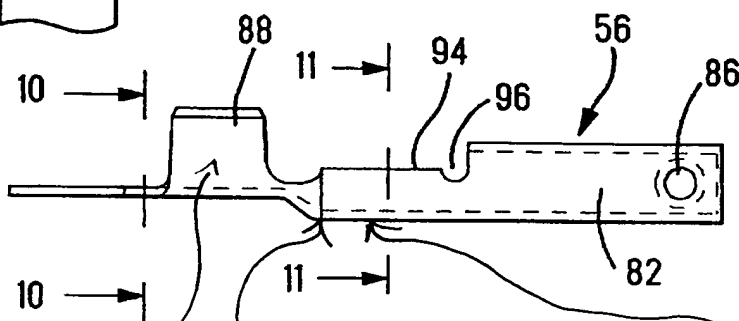
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (571) 272-2800 ext 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


THO D.TA
PRIMARY EXAMINER

tdt
02/09/04



1st end —
of the inner
conductor

2nd end of the inner conductor 88

2nd end of center contact 82

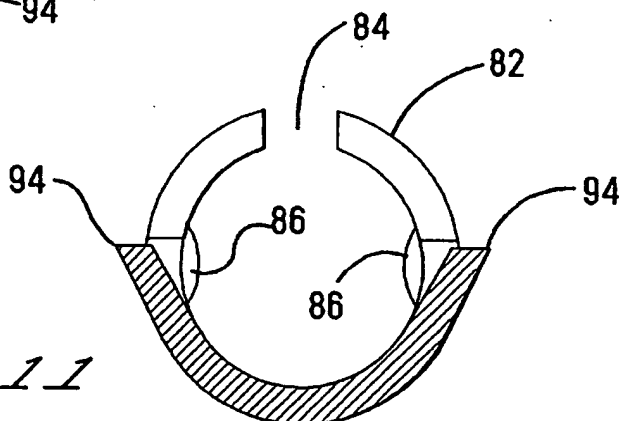
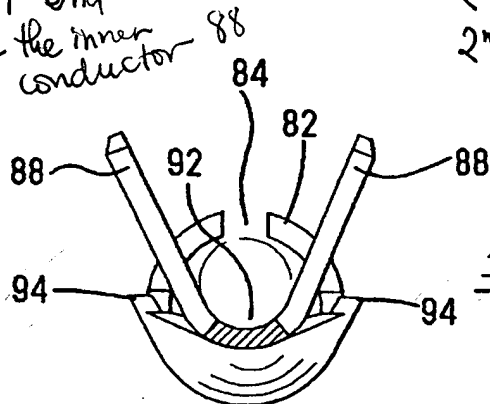


Fig. 11

